

IN THE CLAIMS:

Kindly replace the claims of record with the following full set of claims:

1. (Currently Amended) A method for automatically discovering web services comprising:

querying a known Universal Description Discovery and Integration (UDDI) server address periodically, in a fully automatic fashion without user intervention, by a networked lightweight embedded Consumer Electronics (CE) device via a structured UDDI query, wherein the structured UDDI query includes the use of a unique identity indicative that a web service is technically compliant with a particular web service standard interface which is supported and understood by the networked lightweight embedded CE device, said query further including at least one taxonomy of a set of taxonomies as a search criterion, said taxonomy providing further categorization of information associated with selected web services, the known UDDI server at the UDDI server address containing a list of web services, and further wherein the list of web services includes one or more service types of distinct web services new to and previously unknown by the networked lightweight embedded CE device (a) that are technically compliant with the particular web service standard interface and (b) which can be used by the networked lightweight embedded CE device to implement at least one of b(i) providing data to the networked lightweight embedded CE device and b(ii) enhancing a functionality of the networked lightweight embedded CE device;

identifying from said list in response to the structured UDDI query the technically compliant distinct web services of one or more service types new to and previously unknown by the networked lightweight embedded CE device, wherein the identifying is performed at the UDDI server; and

automatically downloading via a structured response from the UDDI server to the networked lightweight embedded CE device at least one machine readable description of a distinct web service from the list of identified technically compliant web services of one or more service types new to and previously unknown by the networked lightweight

embedded CE device, wherein the at least one machine readable description enables the networked lightweight embedded CE device to offer a greater choice of web services to a device user.

2. (Canceled)

3. (Previously Presented) A method according to claim 1, wherein said querying comprises transmitting the structured query in a predefined format, and wherein said structured query further contains a specific request, thereby limiting the type of compliant web service identified.

4. (Currently amended) A method according to claim 3, wherein said structured query contains a request for TV Anytime services, ~~said structured query further including an element specifying a set of taxonomies to which said identified compliant web service must conform.~~

5. (Original) A method according to claim 4, wherein said set of taxonomies is at least one of authority name, broadcast service, genre, content format, service usage rights, table types and queryable fields.

6. (Previously Presented) A method according to claim 3, and further comprising responding to said querying with a response comprising the list of compliant web services limited according to the specific request.

7. (Previously Presented) A method according to claim 6, and further comprising selecting via said networked lightweight embedded CE device a web service from said list of compliant web services limited according to the specific request and communicating the selected web service to said UDDI server address.

8. (Currently Amended) Apparatus for automatically discovering web services comprising:

communicating means for:

querying a known Universal Description Discovery and Integration (UDDI) server address periodically, in a fully automatic fashion without user intervention, containing a list of web services, wherein querying includes using a structured UDDI query by a networked lightweight embedded Consumer Electronics (CE) device, the structured UDDI query including use of a unique identity indicative that a web service is technically compliant with a particular web service standard interface which is supported and understood by the networked lightweight embedded CE device, said query further including at least one taxonomy from a set of taxonomies as a search criterion, said taxonomy providing categorization of information associated with selected web services, and further wherein the list of web services includes one or more service types of distinct web services new to and previously unknown by the networked lightweight embedded CE device (a) that are compliant with the particular web service standard interface and (b) which can be used by the networked lightweight embedded CE device to implement at least one of b(i) providing data to the networked lightweight CE device and b(ii) enhancing a functionality of the networked lightweight embedded CE device; and

identifying from said list in response to the structured UDDI query the technically compliant distinct web services of one or more service types new to and previously unknown by the networked lightweight embedded CE device, said communicating means further being arranged to automatically download via a structured response to the networked lightweight embedded CE device at least one machine readable description of a distinct web service from the list of identified compliant web services of one or more service types new to and previously unknown by the networked lightweight embedded CE device, wherein the at least one machine readable description enables the networked lightweight embedded CE device to offer a greater choice of web services to a device user.

9. (Canceled)

10. (Previously Presented) Apparatus according to claim 8, wherein said communicating

means queries said UDDI server address by transmitting the structured query in a predefined format and wherein said communicating means is further arranged to include in said structured query a specific request, thereby limiting the type of compliant web service identified.

11. (Previously Presented) Apparatus according to claim 10, wherein said structured query contains a request for TV Anytime services, said structured query further including an element specifying a set of taxonomies to which said identified compliant web service must conform.

12. (Original) Apparatus according to claim 11, wherein said set of taxonomies is at least one of authority name, broadcast service, genre, content format, service usage rights, table types and queryable fields.

13. (Previously Presented) Apparatus according to claim 8, and further comprising a user interface for displaying information and for receiving user instructions.

14. (Previously Presented) Apparatus according to claim 13, wherein said user interface is arranged to display the list of compliant web services and to receive a user selection of one or more of the displayed compliant web services.

15. (Currently Amended) A method for automatically discovering TV Anytime web services comprising:

querying a known Universal Description Discovery and Integration (UDDI) server address, in a fully automatic fashion without user intervention, by a networked lightweight embedded Consumer Electronics (CE) device via a structured UDDI query, wherein the structured UDDI query includes the use of a unique identity indicative that a web service is technically compliant with a particular web service standard interface which is supported and understood by the networked lightweight embedded CE device, said query further including at least one taxonomy from a set of taxonomies as a search criterion, said taxonomy providing categorization of information associated with said

web services, the known UDDI server at the UDDI server address containing a list of web services, and further wherein the list of web services includes one or more service types of distinct web services new to and previously unknown by the networked lightweight embedded CE device (a) that are technically compliant with the particular web service standard interface and (b) which can be used by the networked lightweight embedded CE device to implement at least one of b(i) providing data to the networked lightweight embedded CE device and b(i) enhancing a functionality of the networked lightweight embedded CE device;

identifying from said list in response to the structured UDDI query the technically compliant distinct web services of one or more service types new to and previously unknown by the networked lightweight embedded CE device, wherein the identifying is performed at the UDDI server; and

automatically downloading via a structured response from the UDDI server to the networked lightweight embedded CE device at least one machine readable description of a distinct web service from the list of identified technically compliant web services of one or more service types new to and previously unknown by the networked lightweight embedded CE device, wherein the at least one machine readable description enables the networked lightweight embedded CE device to offer a greater choice of web services to a device user, wherein further said querying comprises transmitting the structured query in a predefined format, and said structured query further including an element specifying [[a]] said set of taxonomies to which said identified compliant web service must conform.

16. (Original) A method according to claim 15, wherein said set of taxonomies is at least one of authority name, broadcast service, genre, content format, service usage rights, table types and queryable fields.

17. (Currently Amended) Apparatus for automatically discovering TV Anytime web services comprising:

communicating means for;

querying a known Universal Description Discovery and Integration (UDDI) server address containing a list of web services, wherein querying includes, in a

fully automatic fashion without user intervention, using a structured UDDI query by a networked lightweight embedded Consumer Electronics (CE) device, the structured UDDI query including use of a unique identity indicative that a web service is technically compliant with a particular web service standard interface which is supported and understood by the networked lightweight embedded CE device, said query further including at least one taxonomy from a set of taxonomies as a search criterion, said taxonomy providing further categorization of information associated with selected web services, and further wherein the list of web services includes one or more service types of distinct web services new to and previously unknown by the networked lightweight embedded CE device (a) that are technically compliant with the particular web service standard interface and (b) which can be used by the networked lightweight embedded CE device to implement at least one of b(i) providing data to the networked lightweight embedded CE device and b(ii) enhancing a functionality of the networked lightweight embedded CE device; and

identifying from said list in response to the structured UDDI query the technically compliant distinct web services of one or more service types new to and previously unknown by the networked lightweight embedded CE device, said communicating means further being arranged to automatically download via a structured response to the networked lightweight embedded CE device at least one machine readable description of a distinct web service from the list of identified technically compliant web services of one or more service types new to and previously unknown by the networked lightweight embedded CE device, wherein the at least one machine readable description enables the networked lightweight embedded CE device to offer a greater choice of web services to a device user, further wherein said communicating means queries said UDDI server address by transmitting the structured UDDI query in a predefined format, and said structured UDDI query further including an element specifying a set of taxonomies to which said identified compliant web service must conform.

18. (Original) Apparatus according to claim 17, wherein said set of taxonomies is at least one of authority name, broadcast service, genre, content format, service usage rights, table types and queryable fields.